THE OFFICE OF REGULATORY STAFF

DIRECT TESTIMONY AND EXHIBITS

OF

A. RANDY WATTS

March 5, 2009



DOCKET NO. 2009-2-E
Annual Review of Base Rates for Fuel Costs
of South Carolina Electric & Gas Company
PUBLIC/REDACTED VERSION

1		DIRECT TESTIMONY OF
2		A. RANDY WATTS
3		ON BEHALF OF
4		THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF
5		DOCKET NO. 2009-2-E
6		IN RE: ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS
7		OF SOUTH CAROLINA ELECTRIC & GAS COMPANY
8		
9	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.
10	A.	My name is Randy Watts. My business address is 1401 Main Street, Suite 900,
11		Columbia, South Carolina 29201. I am employed by the State of South Carolina as
12		Program Manager of the Electric Department for the Office of Regulatory Staff ("ORS").
13	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
14	A.	I received a Bachelor of Science Degree in Electrical Engineering from the
15		University of South Carolina in Columbia in 1976. I was employed at that time by the
16		Public Service Commission of South Carolina ("Commission") as a Utilities Engineer in
17		the Electric Department and was promoted to Chief of the Electric Department in August
18		1981. Subsequent to internal Commission restructuring, my position was redesignated
19		Chief of Electric in October 1999. I remained in that role until transferring to my current
20		position with ORS in January 2005. I have testified on numerous occasions before this
21		Commission in conjunction with fuel clause, complaint, territorial assignment, Siting Act
22		and general rate proceedings.
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1	Ο.	WHAT IS	THE PURPOSE	OF YOUR	TESTIMONY?
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- The purpose of my testimony is to set forth ORS Electric Department's findings and recommendations resulting from its examination and review of the South Carolina Electric & Gas Company's ("SCE&G" or "Company") fuel expenses and power plant operations used in the generation of electricity to meet the Company's retail customer requirements.
- 7 Q. WHAT AREAS WERE ENCOMPASSED IN YOUR REVIEW OF THE 8 COMPANY'S FUEL EXPENSES AND PLANT OPERATIONS?
 - A. In preparation for this proceeding, the Electric Department reviewed, among other materials and documents, the Company's monthly fuel reports including power plant performance data, unit outages, and generation statistics. Comparisons and analysis of actual to original estimates were performed for both megawatt-hour sales and fuel costs.
- Q. WHAT ADDITIONAL STEPS WERE TAKEN IN ORS'S REVIEW OF THE COMPANY'S PROPOSAL IN THIS PROCEEDING?
 - Numerous meetings were held with various SCE&G personnel representing a variety of areas of expertise to discuss and review the Company's fossil and nuclear fuel procurement; fuel transportation; environmental cost and compliance procedures; nuclear, fossil and hydro generating plant's performance; plant dispatch; forecasting; resource planning; and general Company policies and procedures. These meetings occurred at ORS and SCE&G Headquarters in Columbia, S.C. Additionally, ORS keeps abreast of the coal and natural gas industries including transportation through industry publications on a daily basis. During this review period, ORS also conducted on-site visits of both the Williams coal-fired and V.C. Summer nuclear generation stations.

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1 Q. WHAT DID ORS DETERMINE FROM ITS EXAMINATION OF THE COMPANY'S PLANT PERFORMANCE FOR THE REVIEW PERIOD?

ORS reviewed the performance of the Company's generating facilities to determine if the Company made reasonable efforts to minimize fuel costs. The review period includes the actual period from February 2008 through December 2008, the estimated period from January 2009 through April 2009, and the forecast period from May 2009 through April 2010. ORS reviewed the availability of the Company's major power plants. Exhibit ARW-1 page 1 of 2 shows the monthly availability of the Company's major generating units stated in percentages. The corresponding capacity factors in Exhibit ARW-1 page 2 of 2 indicate the monthly utilization of each unit in producing power.

PLEASE EXPLAIN THE SIGNIFICANCE OF PLANT AVAILABILITY AND HOW IT IS USED IN ORS'S EVALUATION OF THE COMPANY'S PLANT PERFORMANCE.

Exhibit ARW-2 shows the Company's major fossil and nuclear units summary of outages for the review period. With reference to Exhibit ARW-1, in months where generation units show zero availability as well as those months showing less than 100% availability led us to examine the reasons for such occurrences. Exhibits ARW-1 and ARW-2 were used to evaluate the Company's plant operations. As an example, Exhibit ARW-1 shows that Cope had 0.00% availability in the months of September and October 2008. Exhibit ARW-2 indicates the reason for the 0.00% availability as being the scheduled eleven week outage for Selective Catalytic Reactor ("SCR") installation between August 31, 2008 and November 12, 2008; therefore, the unit was not available

1	to generate	electricity	during	this	time	frame	due	to	these	planned	activities	being
2	performed.											

Q. PLEASE EXPLAIN HOW THE OTHER OUTAGES ARE REPRESENTED ON EXHIBIT ARW-2?

- Exhibit ARW-2 provides explanations for major fossil unit outages of 100 hours or greater although our review includes all outages. Exhibit ARW-2 also provides explanations for all nuclear plant outages during the review period.
- 8 Q. PLEASE ADDRESS THE OUTAGES AT THE VC SUMMER NUCLEAR
 9 STATION.
- 10 A. Exhibit ARW-2 page 3 of 3 shows one forced and one planned outage during the 11 review period. ORS reviewed these outages including associated Nuclear Regulatory Commission ("NRC") documents, and determined that the Company responded 12 13 appropriately during both outages. Despite the two outages during the review period, the 14 VC Summer nuclear station operated efficiently with an actual availability factor of 15 85.1% and an actual capacity factor of 84.8%. The VC Summer nuclear unit was refueled 16 during this review period between April 25, 2008 and June 14, 2008. VC Summer is on 17 an approximate 18 month refueling cycle, and is scheduled to begin its next refueling 18 outage in October 2009.
- 19 Q. WHAT WERE THE RESULTS OF ORS'S ANALYSIS OF THE COMPANY'S
 20 PLANT OPERATIONS FOR THE PERIOD UNDER REVIEW?
- 21 A. ORS's review of the Company's operation of its generating facilities concluded 22 that the Company made reasonable efforts to maximize unit availability.

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1	Q.	WHAT WERE THE RESULTS OF ORS'S REVIEW OF THE GENERATION
2		MIX AND BASELOAD UNIT FUEL COSTS UTILIZED BY THE COMPANY
3		DURING THE REVIEW PERIOD?

Exhibit ARW-3 shows the monthly generation mix for the review period by generation type. As shown in this Exhibit, the combined-cycle natural gas-fired plants, which include both Jasper and Urquhart, are trending to contribute higher percentage generation throughout the period as system demand increases. This is in contrast to previous dispatch patterns where these plants were more routinely operated during the summer and winter peak months with lower percentage generation during the non-peak periods.

In addition, Exhibit ARW-4 shows the average fuel costs for the major generating plants on the Company's system for the review period and the megawatt-hours produced by those respective plants. VC Summer generation represents SCE&G's 2/3 ownership percentage in the plant. The chart shows the lowest average fuel costs at the VC Summer Nuclear Station being 0.46 cents/kWh and the highest average fuel costs at the Jasper and Urquhart natural-gas fired combined cycle plants being 8.11 and 9.30 cents/kWh, respectively. The Company utilizes economic dispatch which generally requires that the lower cost units are dispatched first.

Q. HAS ORS REVIEWED THE ACCURACY OF THE COMPANY'S SALES FORECAST FOR THE REVIEW PERIOD?

Yes. As shown in Exhibit ARW-5, the Company's actual megawatt-hour sales versus forecasted sales varied by 2.72% during the review period.

Q.	HAS ORS REVIEWED THE ACCURACY OF THE COMPANY'S FUEL COST
	FORECAST FOR THE REVIEW PERIOD?
A.	Yes. In addition, Exhibit ARW-6 shows the monthly variance between projected
	and actual fuel cost in cents/kWh for the review period. This Exhibit shows the
	cumulative average projected fuel cost level for the period was 21.27% below the actual
	resulting cost level.
Q.	WHAT OTHER INFORMATION HAS ORS REVIEWED IN MAKING ITS
	DETERMINATIONS IN THIS PROCEEDING?
A.	Exhibit ARW-7 shows ending period balances of fuel costs beginning July 1979.
	The Company has experienced both under-recovery and over-recovery balances
	throughout the approximate thirty year period. As of December 2008, the Company was
	experiencing a cumulative under-recovery of \$130,199,721.
Q.	WHAT OTHER SOURCES OF INFORMATION DOES ORS USE IN
	DETERMINING THE REASONABLENESS OF A UTILITY'S REQUEST FOR A
	FUEL COST COMPONENT?
A.	ORS routinely 1) reviews private and public industry publications as well as those
	available on the Energy Information Administration's ("EIA") website; 2) conducts
	meetings with Company personnel; 3) attends industry conferences; and 4) reviews
	information as filed monthly by electric generating utilities on Form EIA-923.
Q.	DID ORS REVIEW ADDITIONAL INFORMATION IN DETERMINING THE
	REASONABLENESS OF THE COMPANY'S FORECAST?
A.	Yes. ORS reviewed the forecasted maintenance schedules for the Company's
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major generating units as well as the Company's fuel price forecast for nuclear, coal, and

1		natural gas. The Company continues to utilize the PROSYM® computer model to project
2		fuel costs. PROSYM _® is an accepted computer model utilized by utility companies
3		throughout the country for fuel cost projections. ORS also reviewed the Company's load
4		forecasting and dispatch procedures.
5	Q.	DID ORS REVIEW THE COMPANY'S PROPOSAL TO COMPLY WITH THE
6		CHANGES IN THE RECOVERY OF CERTAIN VARIABLE
7		ENVIRONMENTAL COSTS AS REQUIRED BY S.C. CODE ANN. SECTION 58-
8		27-865(A) (1) (SUPP. 2008)?
9	A.	Yes. ORS reviewed the Company's proposal to calculate the variable
10		environmental component of costs based on firm peak demand for the Residential, Small
11		General Service, Medium General Service, Large General Service/Industrial, and
12		Lighting customer classes. The allocation of variable environmental costs, both incurred
13		and projected, based on firm peak demand distributes the costs to each customer class as
14		required by statute.
15	Q.	HOW DOES THE COMPANY ACCOUNT FOR REVENUES RECEIVED FOR
16		THE SO2 CREDIT PORTION OF OFF-SYSTEM SALES?
17	A.	These revenues are accumulated over time in a separate balance sheet account
18		until the Company has requirements for additional allowances. The Company then uses a
19		portion of the funds to purchase allowances.
20	Q.	WHAT IS THE STATUS OF THE ACCOUNT BALANCE AS OF DECEMBER
21		2008?
22	A.	The SO2 account balance through December 2008 is \$14,081,647.

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Q. WHAT RECOMMENDATION DOES ORS PROPOSE FOR THIS ACCOUNT BALANCE?

In an effort to help mitigate the proposed increase in this case ORS recommends the account balance be applied to the Company's SC retail cumulative environmental fuel cost account balance. This would result in an approximate reduction of 83 cents from the proposed increase on an average monthly residential bill for 1000 kWh. The Company is currently in the process of installing scrubbers at both the Wateree and Williams Stations which are scheduled to be on line and tested during the summer and fall of 2009. The addition of this equipment should significantly reduce the Company's need to purchase SO2 allowances in the future, and as a result this recommendation should not cause an adverse impact to SCE&G's operations and it is also beneficial to the ratepayers.

12 Q. DID ORS MAKE OTHER FINDINGS DURING ITS REVIEW OF THE 13 COMPANY'S COAL PROCUREMENT PRACTICES?

Yes. ORS's review found that the Company made coal sales from Williams Station to industrial facilities but did not fully credit the retail ratepayer for the sales. To ensure the transactions do not adversely impact the retail ratepayer, the sales should have been credited to the ratepayer based on the greater of Williams Station's average inventory coal cost or the cost of spot or contract coal received at Williams Station during the month of the sale. Accordingly, ORS recommends a reduction to SC retail fuel expenses of \$384,617.

Q. HAS ORS DETERMINED THE CORE CAUSES OF THE COMPANY'S
REQUEST FOR AN INCREASE IN THE FUEL FACTOR ASSOCIATED WITH
THIS PROCEEDING?

1	A.	Yes. Through ORS's review process, we believe the primary drivers causing the
2		increase in the fuel factor are the non-performance of contract coal suppliers, the freight
3		rates associated with the Company's new railroad contract and some new long-term
4		contracts for coal.
5	Q.	PLEASE EXPLAIN HOW THE NON-PERFORMANCE OF CONTRACT COAL
6		SUPPLIERS CONTRIBUTED TO THE COMPANY'S REQUEST FOR AN
7		INCREASE IN THE FUEL FACTOR.
8	A.	During the review period, ORS found eight contract coal suppliers that did not
9		timely deliver coal. This resulted in the non-delivery of over the second of coal. Some
10		of the non-deliveries were due to force majeure issues with some of the contract
11		suppliers. Consequently, it was necessary for the Company to purchase replacement coal
12		on the spot market at a price higher than the contract prices. The Company estimates the
13		replacement cost due to non-delivered coal to be approximately on a retail
14		basis. Ideally, the Company strives to maintain 75-80% of their coal purchases through
15		long-term contracts and the remaining through short-term contract purchases to protect
16		the ratepayers from adverse market fluctuations. However, during the review period,
17		these non-deliveries caused the Company's target ratio of long-term contract coal supply
18		to decrease to 55% and the short-term contract coal supply to increase to 45%.
19	Q.	WHAT STEPS HAS THE COMPANY TAKEN TO ADDRESS THESE NON-
20		DELIVERIES?
21	A.	As stated in Company witness Haimberger testimony, the Company has initiated
22		or will initiate action to attempt to recover the additional costs associated with the non-
23		deliveries where it determines there is justification to pursue such actions. ORS has

1		requested the Company provide periodic updates to track the success of the Company's
2		actions. Any successful cost recoveries should be applied to the fuel cost account and
3		returned to the retail ratepayers through the Company's Adjustment for Fuel and Variable
4		Environmental Cost tariff.
5	Q.	PLEASE EXPLAIN HOW THE NEW FREIGHT RATES CONTRIBUTED TO
6		THE COMPANY'S REQUEST FOR AN INCREASE IN THE FUEL FACTOR.
7	A.	Beginning January 1, 2009, the Company's newly negotiated contract with CSXT
8		Railroad became effective. The terms of this new contract resulted in a significant
9		increase in the rail transportation cost for coal. ORS estimates this increase to be at least
10		than the Company's previously contracted rates with CSXT. For this
11		review period, ORS estimates the increased rail rates will add approximately
12		in transportation costs for the retail ratepayers. Given the exorbitant increase in
13		transportation costs associated with the Company's new railroad contract, ORS is
14		attempting to determine if all electric suppliers in the State have been impacted by similar
15		increases in rail rates. ORS considers this matter to be of such significance that it may
16		warrant filing with the Surface Transportation Board ("STB") or other appropriate forum.
17	Q.	PLEASE EXPLAIN HOW SCE&G'S LONG-TERM CONTRACTS
18		CONTRIBUTED TO THE COMPANY'S REQUESTS FOR AN INCREASE IN
19		THE FUEL FACTOR.
20	A.	During ORS's review, it was noted that there were long-term coal contracts
21		initiated where the purchase price was greater than . These contracts
22		were secured during a time in which the market price for coal was unusually high. ORS
23		estimates SCE&G's commitments for coal purchases under these contracts equate to

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approximately above current coal prices on a retail basis for the review period. However, ORS recognizes that these contracts were signed to ensure an adequate supply of coal and to maintain reliability of service.

4 Q. WHAT IS THE CUMULATIVE EFFECT OF THESE MAJOR COST DRIVERS?

The combination of these three factors alone is estimated to contribute over more in SC retail costs for the review period. ORS conducted extensive audit reviews and analyses of these cost factors and will continue to track and monitor the Company's progress in seeking relief from the non-performing coal suppliers as well as the increased costs associated with the other contracts and agreements.

Q. DOES ORS HAVE ANY OTHER RECOMMENDATION TO OFFER IN THIS PROCEEDING?

Yes. The Company's testimony acknowledges its proposed fuel factors represent a significant increase in costs to its retail ratepayers and has offered to delay collection of one half of the unrecovered balance plus interest until the next fuel billing period beginning May 2010. Due to the significant amount of increase requested and also considering the adverse economic conditions, ORS recommends that the unrecovered balance be further mitigated by spreading these costs over an additional twelve month period for a total of three years. ORS also recommends that carrying costs for this 3-year amortization, if approved, be based on a 3-year compounded U.S. Government Treasury Note rate plus 65 basis points instead of the Company's proposed 10-year Treasury Bill rate with the 65 basis points. These are extraordinary times with respect to fuel purchasing and this additional measure of relief for the retail ratepayers is reasonable, appropriate and warranted.

1	Q.	WHAT ARE THE BASE	FUEL C	COST AN	D ENVIRONMENTAL FA	CTORS BY
2		CLASS RESULTING	FROM	ORS'S	RECOMMENDATIONS	IN THIS
3		PROCEEDING?				
4	A.	As shown on Exhib	oit ARW-8	3, the Base	e Fuel Cost Component is 3.0	621 cents per
5		kilowatt-hour. The resulting	g Environ	mental Fu	el Cost Components in cents	/kWh can be
6		found on Exhibit ARW-9.				
7		The resulting combined Fu	el Factor	Componer	ats in cents/kWh by class can	be found on
8		Exhibit ARW-10 which sho	ows the fol	llowing:		
9		Residential Service	3.671			
10		Small General Service	3.662			
11		Medium General Service	3.654			
12		Large General Service	3.646			
13		Lighting Service	3.621			
14	Q.	DOES THIS CONCLUDE	E YOUR T	restimo	ONY?	

Yes, it does. 15 **A.**

Office of Regulatory Staff
Power Plant Performance Data Report
Availability Factors (Percentage) for
South Carolina Electric & Gas Company

HISTORICAL DATA NET MW YEAR YEAR YEAR RATING 2006 2007 200 105 84.0 57.0 86. 115 87.8 87.2 66. 185 87.6 87.3 82. 420 94.6 92.2 75. 125 88.2 94.2 88.	25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEB MAR 2008 2008 100.0 100.0 0.0 22.3 91.6 91.9 100.0 88.1 100.0 60.8	APR 2008 100.0 92.2 45.6 69.1 100.0 85.4	REVII MAY 2008 2008 52.6 1100.0 100.0 1100.0	REVIEW PERIOD (ACTUAL) DATA AY JUN JUL AUG SE 08 2008 2008 20 20 06 2008 2008 20 20 07 100.0 100.0 86.9 91 08 97.4 83.7 91.3 89 09 100.0 100.0 92.8 0.0 00 100.0 100.0 92.8 0.0 00 100.0 100.0 92.8 0.0 00 100.0 100.0 93.9 100	JUL 2008 2008 100.0 100.0 100.0 100.0	AUG. 2008 2008 86.9 91.4 91.3 99.8 100.0	SEP 2008 91.2 96.7 89.4 0.0 92.6	OCT 2008 2008 77.3 43.6 0.0 72.8	86.8 0.0 77.1 59.3 100.0	30.6 94.9 89.3 97.1	Average Review Pd. 85.3 69.8 81.4 74.1 86.9
93.4	87.5 94.3 93.2 81.4		32.8 64.2 90.2 29.3	90.5 100.0 91.8 100.0	95.7 100.0 100.0 100.0	100.0 100.0 100.0 100.0	95.9 82.6 100.0 97.3 96.5	100.0 97.5 100.0 100.0	54.7 100.0 95.7 55.3 83.3	84.1 100.0 84.2 100.0	64.5 100.0 100.0 95.2	90.4 86.4 94.7 92.6 80.0
83.6 85.0 84.9	88.6 92.2 92.5		70.9 70.1 97.5 97.5	93.0 100.0 100.0 100.0	98.6 86.0 100.0 100.0	98.4 100.0 100.0 96.8	94.0 100.0 100.0 99.1	99.6 99.6 91.1	67.4 100.0 100.0 100.0	78.3 50.1 46.3 50.1	87.1 77.2 67.1 79.5	84.2 87.6 91.4 91.8
383 70.6 86.1 162 91.7 94.4 66 92.2 93.2 171 95.3 80.7 68 95.2 80.5	93.5 100. 78.2 100. 79.8 100. 87.5 100.	100.0 95.3 100.0 82.7 100.0 82.7 100.0 89.3 100.0 89.3	100.0 100.0 100.0 48.1 48.1	99.9 86.6 86.6 42.1 41.3	99.5 85.5 95.4 97.3	99.3 83.7 89.6 100.0 99.3	100.0 98.7 98.7 100.0	99.6 66.7 66.7 98.8 100.0	100.0 0.0 0.0 81.2 81.0	50.1 35.3 38.8 99.8 100.0	78.6 100.0 100.0 100.0	92.9 76.3 78.0 87.0 87.0
1319 87.3 86.2 966 88.9 99.5	87.5 100.0 84.4 97.2	0.0 88.8	82.6	82.0 0.0	9 5.3 55.8	96.1	99.6	90.2	70.3	58.8 100.0	87.8 100.0	86.5

Note 1: CC designates Combined-Cycle units

Office of Regulatory Staff Power Plant Performance Data Report Capacity Factors (Percentage) for South Carolina Electric & Gas Company

			H	HISTORICAL	AL DATA	¥				REVIEW PERIOD (ACTUAL) DATA	PERIO	D (ACT	UAL) D	4TA				
PLANT	UNIT	NET MW RATING	LIFE	YEAR 2006	YEAR 2007	YEAR 2008	FEB 2008	MAR 2008	APR 2008	MAY 2008	JUN 2008	JUL 2008	AUG 2008	SEP 2008	OCT 2008	NOV 2008	DEC 1	Average Review Pd
																	+-	
CANADYS	_	105	80.7	0.69	43.8	9.79	8.89	94.5	88.1	34.4	84.4	86.1	58.3	73.3	64.2	71.2	21.9	67.7
CANADYS	7	115	7.67	6.69	9.79	50.0	0.0	15.8	79.2	91.6	73.1	78.1	68.4	67.3	58.1	0.0	44.2	52.3
CANADYS	3	185	51.1	69.7	77.8	66.4	27.6	6.62	41.1	70.8	88.1	76.8	82.1	78.9	36.8	68.7	20.8	929
COPE		420	78.5	93.1	0.06	71.0	99.4	81.3	61.0	97.1	95.8	97.0	95.9	0.0	0.0	48.5	80.2	68.7
McMEEKIN	_	125	689	76.7	81.9	80.3	87.8	0.5	92.9	92.6	94.5	96.2	95.9	85.8	66.4	90.8	77.0	79.4
McMEEKIN	7	125	69.1	73.0	59.0	82.9	91.2	57.6	77.4	92.8	93.7	93.8	83.2	90.4	45.9	87.8	88.5	82.0
URQUHART	n	94	74.7	9.08	86.5	77.2	86.5	96.5	31.6	79.8	89.4	92.0	72.3	9.68	88.2	65.2	47.2	76.2
WATEREE	_	320	69.7	79.2	68.2	79.7	71.2	77.5	48.0	96.1	87.5	88.9	84.7	85.7	84.8	82.5	74.6	80.1
WATEREE	7	350	8.69	60.7	72.9	79.5	78.0	87.2	81.9	74.6	91.4	9.68	84.5	91.3	46.9	65.4	75.9	78.8
WILLIAMS		615	2.79	83.4	70.9	76.2	9.49	0.0	25.0	96.5	97.2	96.1	92.8	95.7	78.4	95.9	81.7	74.9
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FOSSIL TOTALS		2484	70.9	78.6	74.3	74.5	74.8	54.2	55.0	87.8	91.9	91.3	86.5	73.0	55.1	71.8	9.69	73.7
	,	,			,												 [
JASPER CC	_	156	n/a	25.1	29.7	33.9	26.7	32.8	26.7	23.4	51.5	47.4	48.8	44.6	32.9	7.1	12.4	32.2
JASPER CC	7	163	n/a	27.0	35.3	37.5	28.6	62.6	43.2	34.0	50.0	44.1	46.4	41.3	49.9	1.6	4.8	36.9
JASPER CC	e	150	n/a	25.2	30.1	38.6	12.5	39.0	51.4	61.7	8.99	40.0	51.8	33.8	35.4	8.5	13.0	37.6
JASPER ST	4	383	n/a	19.5	24.5	9.92	15.1	31.4	27.6	26.9	46.0	32.3	38.7	30.5	26.5	3.6	6.7	25.9
URQUHART CC	S	162	n/a	17.9	22.9	20.3	7.5	9.4	38.6	14.4	41.5	21.8	36.3	28.5	0.0	10.3	11.0	19.9
URQUHART CC	_	99	n/a	20.0	24.8	22.1	8.2	11.4	44.1	16.2	42.7	23.4	39.7	30.6	0.0	11.5	10.9	21.7
URQUHART CC	9	171	n/a	15.4	20.8	18.5	1.2	8.5	0.0	13.1	54.6	25.9	22.9	24.5	17.2	25.5	8.9	18.2
URQUHART CC	7		n/a	17.4	22.7	20.4	1:1	9.4	0.0	15.1	6.19	28.0	23.9	26.0	19.0	29.1	7.3	20.1
CC TOTALS ¹		1319	n/a	n/a	26.3	27.8	14.0	28.5	29.3	26.9	50.7	33.6	39.3	32.6	25.0	9.7	9.8	27.1
					_												-	
V.C. SUMMER	-	996	80.9 2	88.3	100.1	84.2	96.3	100.7	82.1	0.0	51.1	6.66	99.7	100.0	100.5	100.7	101.5	84.8

Note 1: CC designates Combined-Cycle units

Note 2: The lifetime nuclear unit capacity factor for V.C. Summer is through December 2008

Office of Regulatory Staff Fossil Unit Outage Report (100 Hrs or Greater Duration) for South Carolina Electric and Gas Company

EXPLANATION OF OUTAGE	Unit was taken offline for annual Spring Outage	Unit was taken offline for annual Fall Outage	Unit was taken offline due to a turbine generator overhaul, division wall tube replacements, coal mill overhaul, and coal	feeder replacement	Unit was taken offline for annual Fall Outage	Unit was taken offline for annual Spring Outage	Unit was forced offline due to lightning strike	Unit remained offline to repair boiler leak and overhaul high pressure heater valve	Unit was taken offline for annual Fall Outage	Unit was forced offline due to F.D. fan control governor failure	Unit remained offline to repair a boiler tube leak	Unit was taken offline for annual Spring Outage	Unit was taken offline for a planned eleven week outage for SCR installation	Unit was taken offline for annual Spring Outage	Unit was taken offline for annual Fall Outage	Unit was forced offline due to a hydraulic oil line break in turbine front standard	Unit remained offline for annual Spring Outage	Unit was taken offline for annual Fall Outage	Unit was taken offline to repair turbine front standard and to complete other maintenance work	Unit went into startup failure to repair a disconnect switch	Unit was taken offline due to a CRV Valve packing blowout	Unit was taken offline for annual Spring Outage	Unit was taken offline for annual Fall Outage	Unit was taken offline for annual Spring Outage	Unit was taken offline for annual Fall Outage	
TYPE	Planned	Planned	Planned		Planned	Planned	Forced/	Maintenance	Planned	Forced/	Maintenance	Planned	Planned	Planned	Planned	Forced/	Planned	Planned	Maintenance	Startup Failure	Maintenance	Planned	Planned	Planned	Planned	
HOURS	349.95	570.98	1772.38		926.58	396.98	146.43		404.83	76.10		217.63	1749.02	726.75	202.10	396.08		336.70	322.08	167.72	115.72	325.58	327.40	1415.85	120.78	
DATE ON	05/19/08	12/21/08	03/24/08		12/02/08	04/30/08	08/02/08		10/27/08	11/29/08		04/13/08	11/12/08	03/31/08	10/12/08	04/05/08		10/18/08	04/25/08	05/02/08	02/02/08	04/11/08	10/24/08	04/21/08	10/30/08	
DATE OFF	02/02/08	11/28/08	1/11/2008 1		10/24/08	04/14/08	02/26/08		10/11/08	11/26/08		04/04/08	08/31/08	03/01/08	10/03/08	03/19/08		10/04/08	04/12/08	04/25/08	1/29/2008 2	03/29/08	10/10/08	02/22/08	10/24/08	
UNIT	Canadys #1	Canadys #1	Canadys #2		Canadys #2	Canadys #3	Canadys #3		Canadys #3	Canadys #3		Cope	Cope	McMeekin #1	McMeekin #1	McMeekin #2		McMeekin #2	Urquhart #3	Urquhart #3	Wateree #1	Wateree #1	Wateree #2	Williams	Williams	

Note 1: This outage began before the review period. Note 2: This outage began before the review period.

Office of Regulatory Staff Fossil Unit Outage Report (100 Hrs or Greater Duration) for South Carolina Electric & Gas Company

UNIT	DATE OFF	DATEON	HOURS	TYPE	EXPLANATION OF OUTAGE
Jasper #1	03/12/08	03/22/08	125.73	Forced	Unit was forced offline due to a warped condenser valve
Jasper #1	04/13/08	04/20/08	168.00	Planned	Unit was taken offline for a hot end inspection
Jasper #1	06/20/08	06/24/08	101.00	Maintenance	Unit was taken offline to repair leaking coils
Jasper #1	11/16/08	12/08/08	529.50	Planned	Unit was taken offline to repair exhaust bearing support and replace feedwater valve
Jasper #2	11/16/08	12/11/08	604.57	Planned	Unit was taken offline due to a planned outage
Jasper #3	11/16/08	12/07/08	512.57	Planned	Unit was taken offline due to a planned outage
Jasper #4	11/16/08	12/07/08	519.32	Planned	Unit was taken offline due to a planned outage
Urquhart #1	03/23/08	03/28/08	123.07	Maintenance	Unit was taken offline to perform annual inspection of exciter
Urquhart #1	05/01/08	05/05/08	100.00	Maintenance	Unit was taken offline to repair a combustion chamber
Urquhart #1	09/21/08	11/19/08	1425.63	Planned	Unit was taken offline due to a Major Turbine Overhaul
Urquhart #2	03/28/08	04/03/08	143.12	Maintenance	Unit was taken offline to perform annual inspection of exciter
Urquhart #2	04/18/08	05/19/08	741.80	Maintenance	Unit was taken offline to repair a 6GT Turbine Blade
Urquhart #2	10/20/08	10/25/08	137.83	Maintenance	Unit was taken offline due to a 4160 Volt Circuit Breaker
Urquhart #5	03/23/08	03/28/08	123.07	Maintenance	Unit was taken offline to perform annual borescope inspection and other maintenance
Urquhart #5	05/01/08	05/05/08	100.00	Maintenance	Unit was taken offline to repair a combustion chamber
Urquhart #5	07/01/08	80/90/20	105.50	Maintenance	Unit was taken offline to replace Generator Bearing
Urquhart #5	09/21/08	11/19/08	1418.45	Planned	Unit was taken offline due to a Major Turbine Overhaul
Urquhart #6	03/28/08	04/03/08	143.12	Maintenance	Unit was taken offline to perform annual borescope inspection and other maintenance
Urquhart #6	04/18/08	05/18/08	735.97	Maintenance	Unit was taken offline to repair a 6GT Turbine Blade
Urquhart #6	10/20/08	10/25/08	137.83	Maintenance	Unit was taken offline due to a Fuel Gas Piping Repair

Office of Regulatory Staff
V.C. Summer Nuclear Unit Outage Report for
South Carolina Electric & Gas Company

EXPLANATION OF OUTAGE	Unit was forced off line due to the failure of the "C" Feedwater Flow Control Valve Positioner	Unit was taken offline for Refueling Cycle 17	Unit was taken offline for a Turbine Overspeed Trip test
TYPE	Forced	Planned	Planned
HOURS	195.55	1181.13	1.77
DATE ON	02/01/08	06/14/08	06/14/08
DATE OFF	1/24/20081	04/25/08	06/14/08
NO.	-	2	က

Note 1: This outage began before the review period.

Office of Regulatory Staff Generation Mix Report for South Carolina Electric & Gas Company

(February 1, 2008 - December 31, 2008)

MONT	H		PER	CENTAGE			
		FOSSIL	NUCLEAR	COMBINED CYCLE	COMBUSTION TURBINE	HYDRO	PURCHASED POWER
2008 February		68	22	6	0	3	1
March		55	25	15	0	3	2
April		56	21	15	0	4	4
May		79	0	13	0	4	4
June		64	9	18	1	4	4
July		64	18	12	0	4	2
August		62	18	14	0	4	2
September		59	20	14	0	4	3
October		54	25	12	0	4	5
November		66	24	5	0	3	2
December		67	25	4	0	3	11
	Avg =	63	19	11	0	4	3

Office of Regulatory Staff Generation Statistics for Major Plants for South Carolina Electric & Gas Company

(February 1, 2008 - December 31, 2008)

		AVERAGE FUEL COST	GENERATION
PLANT	TYPE FUEL	(CENTS/KWH ¹)	(MWH)
V.C. Summer ²	Nuclear	0.46	4,414,113
Cope	Coal	2.90	2,321,803
Urquhart	Coal	3.04	576,166
McMeekin	Coal	3.27	1,619,477
Williams	Coal	3.37	3,704,949
Wateree	Coal	3.44	4,473,854
Canadys	Coal	3.52	2,030,954
Jasper CC	Gas	8.11	2,144,891
Urquhart CC	Gas	9.30	734,009

Note 1: The average fuel costs for coal-fired plants include oil and/or gas cost for start-up and flame stabilization.

Note 2: Generation Statistics for V.C. Summer represents SCE&G's 2/3 ownership.

Office of Regulatory Staff SC Retail Comparison of Estimated to Actual Energy Sales for South Carolina Electric & Gas Company

2008 FEB MAR APR MAY	[1] ESTIMATED 1,858,000 1,710,000 1,612,000 1,728,(SALES [MWH]	[2] ACTUAL 1,822,584 1,655,323 1,632,957 1,639,; SALES [MWH]	[3] AMOUNT 35,416 54,677 -20,957 88,640 DIFFERENCE [1]-[2]	[4] PERCENT 1.94% 3.30% -1.28% 5.419 DIFFERENCE [3]/[2]
X	1,728,000 2,040,000 2,249,000 2,268,000 2,112,000 1,765,000 1,609,000 1,764,000 20,715,000	,639,360 2,007,728 2,226,603 2,157,148 2,078,373 1,657,597 1,505,277 1,784,128 20,167,077	.0 32,272	5.41% 1.61% 1.01% 5.14%
JUL	2,249,000 2,2	2,226,603 2,1	22,397	1.01% 5
<u>AUG</u>	268,000 2,1	157,148 2,0	110,852 3	
SEP	112,000 1,	078,373 1,	33,627 1	1.62%
120	765,000 1	657,597 1	107,403	6.48%
NOV	1,609,000	,505,277	103,723	6.89% -1.13%
DEC	1,764,000	1,784,128	-20,128	-1.13%
TOTAL	20,715,000	20,167,077	547,923	2.72%

Office of Regulatory Staff
SC Retail Comparison of Estimated to Actual Fuel Cost (Cents/kWh)
for South Carolina Electric & Gas Company

ORIGINAL PROJECTION 1.1457 2.5703 2.5735 2.3924 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 2.7225 PROJECTION ACTUAL EXPERIENCE 2.3476 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 2.7225 AMOUNT IN BASE 2.6300 2.6300 2.641		[1] O	[2] A	[3] A	[4] V.	į
MAY JUN JUL AUG SEP OCT NOV DEC 2.3924 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 3.9611 4.5870 3.2442 3.9476 3.4431 3.3988 3.8099 3.1965 2.6410 2.6410 2.6410 2.6410 2.6410 3.2910 3.2910 -39.60% -37.85% -7.57% -25.09% -13.19% -13.47% -30.97% -16.10%		RIGINAL ROJECTION	CTUAL KPERIENCE	MOUNT BASE	ARIANCE	
MAY JUN JUL AUG SEP OCT NOV DEC 2.3924 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 3.9611 4.5870 3.2442 3.9476 3.4431 3.3988 3.8099 3.1965 2.6410 2.6410 2.6410 2.6410 2.6410 3.2910 3.2910 -39.60% -37.85% -7.57% -25.09% -13.19% -13.47% -30.97% -16.10%	2008 FEB	2.1457	2.3476	2.6300	-8.60%	
MAY JUN JUL AUG SEP OCT NOV DEC 2.3924 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 3.9611 4.5870 3.2442 3.9476 3.4431 3.3988 3.8099 3.1965 2.6410 2.6410 2.6410 2.6410 2.6410 3.2910 3.2910 -39.60% -37.85% -7.57% -25.09% -13.19% -13.47% -30.97% -16.10%	MAR	2.5703			-9.55%	
MAY JUN JUL AUG SEP OCT NOV DEC 2.3924 2.8510 2.9985 2.9570 2.9890 2.9410 2.6300 2.6820 3.9611 4.5870 3.2442 3.9476 3.4431 3.3988 3.8099 3.1965 2.6410 2.6410 2.6410 2.6410 2.6410 3.2910 3.2910 -39.60% -37.85% -7.57% -25.09% -13.19% -13.47% -30.97% -16.10%	APR		3.1153	2.6300	-17.39%	
	MAY	2.3924	3.9611	2.6410	-39.60%	
	NOC	2.8510	4.5870	2.6410	-37.85%	
		2.9985			-7.57%	
	AUG	2.9570			-25.09%	
	SEP	2.9890			-13.19%	
	OCT	2.9410	3,3988	2.6410	-13.47%	
	NOV	2.6300	3.8099	3.2910	-30.97%	
2.7225 3.4581 2.7562 -21.27%	DEC	2.6820	3.1965		-16.10%	
	PERIOD	2.7225	3.4581	2.7562	-21.27%	

FROM ACTUAL [1-2]/[2]

South Carolina Office of Regulatory Staff History of Cumulative Recovery Account Report for South Carolina Electric & Gas Company

PERIOD ENDING	OVER (UNDER)\$
January 1979 - Automatic Fuel	Adjustment in Effect
July-79	4,427,600
April-80	7,608,796
October-80	(462,050)
April-81	2,188,451
October-81	(10,213,138)
April-82	5,164,628
October-82	9,937,268
April-83	9,767,185
October-83	(4,527,441)
April-84	(2,646,395)
October-84	(3,211,158)
April-85	(9,545,054)
October-85	(6,115,435)
April-86	2,474,301
October-86	(540,455)
April-87	(353,393)
October-87	(3,163,517)
April-88	9,247,139
October-88	2,717,342
April-89	(5,665,737)
October-89	(8,777,726)
April-90	(5,288,612)
October-90	6,536,591
April-91	7,180,922
October-91	4,160,275
April-93	15,835,472
October-93	15,449,670
April-93	16,006,551
October-93	10,069,457
April-94	2,646,301
October-94	(265,302)
April-95	6,622,597
October-95	4,202,766
February-97	4,914,169
February-98	596,797
February-99	(1,303,094)
February-00	(124,599)
February-01	(60,454,498)
February-02	(16,421,821)
February-03	(17,429,464)
February-04	(20,532,126)
January-05	(23,979,198)
January-06	(54,743,186)
January-07	(52,562,505)
January-08	(28,848,155)
December-08	(130,199,721)

Office of Regulatory Staff Calculation of Base Fuel Cost Component with Three-Year Recovery Period for Base Fuel Undercollection South Carolina Electric & Gas Company

1.	Projected Data (May, 2009 - April, 2010)	
	Cost of Fuel (000's)	\$ 815,312
	System Sales (GWH)	22,888
	Fuel Rate (Cents/KWH)	3.562
2.	(Over)/Under Collection (000's) through April, 2009	\$ 37,156
	South Carolina Retail Sales (GWH)	22,437
	(Over)/Under Collection Rate (Cents/KWH)	0.166
3.	Base Fuel Cost Component (Cents/KWH)	
	Projected Fuel Rate	3.562
	Carrying Costs	0.007
	Fixed Capacity Charges & Adjustments	(0.095)
	Unbilled Fuel Cost Recovery Adjustment	 (0.019)
	Total Projected Fuel Rate	3.455
	(Over)/Under Recovery Rate	 0.166
	Total Base Fuel Cost Component	3.621

Office of Regulatory Staff Environmental Fuel Component Summary South Carolina Electric & Gas Company May 2009 - April 2010

Customer Class	SCE&G Environmental Fuel Cost (\$)	ORS Environmental Fuel Cost Adjustment (\$)	ORS Environmental Fuel Cost (\$)	Class Sales (kWh)	ORS Environmental Fuel Component (¢/kWh)
Residential	10,895,629	(6,837,814)	4,057,815	8,083,000,000	0.050
Small General Service	3,801,280	(2,425,010)	1,376,270	3,361,000,000	0.041
Medium General Service	2,415,375	(1,569,526)	845,849	2,541,000,000	0.033
Large General Service	5,276,834	(3,249,298)	2,027,536	8,210,000,000	0.025
Totals =	22,389,118	(14,081,648)	8,307,470	22,195,000,000	0.037

Office of Regulatory Staff Proposed Fuel Factors for South Carolina Electric & Gas Company May 2009 - April 2010

SC 2 Y	SCE&G Propo 2 Yr Amortizati	osed Factors tion (¢/kWh)		ORS I 3 Yr A	ORS Proposed Fuel Factor 3 Yr Amortization (¢/kWh)	Factor ¢/kWh)
Customer Class	Base Fuel Factor	Environmental Fuel Factor	Total Fuel Factor	Base Fuel Factor (¢/kWh)	Environmental Fuel Factor	Total Fuel Factor (¢/kWh)
Residential	3.707	0.135	3.842	3.621	0.050	3.671
Small Gen. Service	3.707	0.113	3.820	3.621	0.041	3.662
Med. Gen. Service	3.707	0.095	3.802	3.621	0.033	3.654
Large Gen. Service	3.707	0.064	3.771	3.621	0.025	3.646
Lighting	3.707	0	3.707	3.621	0	3.621